



## UNITED STATES PATENT AND TRADEMARK OFFICE

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UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/086,917	02/28/2002	Babs R. Soller	102164-0015

021125  
NUTTER MCLENNEN & FISH LLP  
ONE INTERNATIONAL PLACE  
BOSTON, MA 02110

COPY OF PAPERS  
ORIGINALLY FILED



CONFIRMATION NO. 1693

## FORMALITIES LETTER



\*OC000000007723184\*

Date Mailed: 03/27/2002

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

06/24/2002 SZWDIE1 00000044 10006917

FILED UNDER 37 CFR 1.53(b)

01 FC:205

65.00 DP

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 65.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

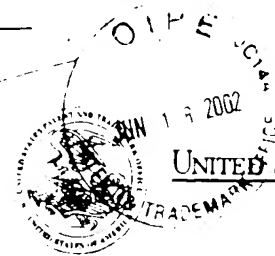
The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. ( 5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

THIS NOTICE IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

Initial Patent Examination Division (703) 308-1202

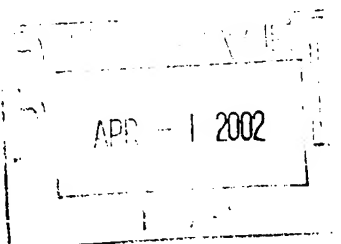
PART 2 - COPY TO BE RETURNED WITH RESPONSE



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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/086,917	02/28/2002	1645	463	102164-0015	9	21	5

021125  
NUTTER MCLENNEN & FISH LLP  
ONE INTERNATIONAL PLACE  
BOSTON, MA 02110

CONFIRMATION NO. 1693

## FILING RECEIPT



\*OC000000007723182\*

Date Mailed: 03/27/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Babs R. Soller, Northboro, MA;  
Patrick Idwasi, Worcester, MA;  
Ndumiso A. Cingo, Worcester, MA;

## Assignment For Published Patent Application

UMASS/WORCESTER, Worcester, MA;

## Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/272,725 03/01/2001  
AND CLAIMS BENEFIT OF 60/325,013 09/26/2001

## Foreign Applications

If Required, Foreign Filing License Granted 03/26/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Early Publication Request

\*\* SMALL ENTITY \*\*

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Office of Initial Patent Examination Customer Service Center, Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated June 11, 2002

Signature

(Reza Mollaaghababa)

Docket No.: 102164-0015  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Babs R. Soller, et al.

Application No.: 10 086,917

Group Art Unit: 1645

Filed: February 28, 2002

Examiner: Not Yet Assigned

For: CORRECTION OF SPECTRA FOR SUBJECT  
DIVERSITY

**REQUEST FOR CORRECTED FILING RECEIPT**

Office of Initial Patent Examination Customer Service Center  
Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Applicant hereby requests that a corrected Filing Receipt be issued in the above-identified patent application. The official Filing Receipt received by Applicant, a copy of which is attached hereto, has an error in Applicant(s):

**Ndumiso A. Cingo, Worcester, MA, which was erroneously included in the unexecuted Declaration filed earlier at the time of filing the application, is not an applicant. Applicants comprise: Babs R. Soller, Northboro, MA; and Patrick Idwasi, Worcester, MA.**

Applicant additionally requests that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed to reflect this correction.

Dated: June 11, 2002

Respectfully submitted

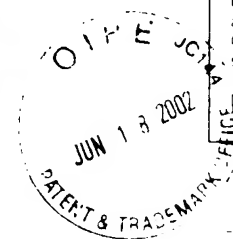
By

Reza Mollaaghababa

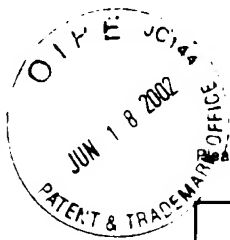
Registration No.: 43,810

NUTTER MCCLENNEN & FISH LLP

Attorneys for Applicant



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Dr. McC. x

Please type a plus sign inside this box

10/SB/21 (08-00)  
Approved for use through 10/31/2002 OMB 0651-0031  
U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>Application Number</b>	10/086,917	
	<b>Filing Date</b>	February 28, 2002
	<b>First Named Inventor</b>	Babs R. Soller
	<b>Group Art Unit</b>	1645
	<b>Examiner Name</b>	Not Yet Assigned
<b>Total Number of Pages in This Submission</b>	<b>Attorney Docket Number</b>	102164-0015

## ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input checked="" type="checkbox"/> Drawing(s) (10 Sheets)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below)
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1. Declaration/Power of Attorney
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2. Request for Corrected Filing Receipt
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3. Original Filing Receipt
<input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	4. Return Postcard
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name	NUTTER MCCLENNEN & FISH LLP Reza Mollaaghababa
Signature	
Date	June 11, 2002

Transmittal	
I hereby certify that this transmittal is being filed with the U.S. Patent and Trademark Office for the purpose of providing a copy of the enclosed documents to the U.S. Patent and Trademark Office for its files and for the use of the U.S. Patent and Trademark Office in the prosecution of the application.	
Date	June 11, 2002
Signature	

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JUN 18 2002

PTO/SB/17 (11-01)

Approved for use through 10/31/2002 OMB 0651-0032

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<b>FEE TRANSMITTAL for FY 2002</b> <small>Patent fees are subject to annual revision.</small>				<b>Complete if Known</b>																																																																																																																																																																																			
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<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Deposit Account Deposit Account Number: 141449 Deposit Account Name: Nutter McClennen & Fish LLP The Commissioner is hereby authorized to: (check all that apply) <input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below except for the filing fee to the above-identified deposit account				<b>3. ADDITIONAL FEES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>65.00</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>133</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>55.00</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - 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<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>84</td><td>202</td><td>42</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>290</td><td>204</td><td>145</td><td>Multiple dependent claim if not paid</td><td></td></tr> <tr><td>109</td><td>84</td><td>209</td><td>42</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="5" style="text-align: right;"><b>SUBTOTAL (2)</b></td><td style="text-align: right;">0.00</td></tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	103	18	203	9	Claims in excess of 20		102	84	202	42	Independent claims in excess of 3		104	290	204	145	Multiple dependent claim if not paid		109	84	209	42	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		<b>SUBTOTAL (2)</b>					0.00																																																																																																																																						
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Fee Transmittal  
 I hereby certify that this transmittal is being submitted with the fee(s) indicated on this form and that the fee(s) are being paid to the U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20540.

*Babs R. Soller*

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Box Missing Parts, Commissioner for Patents, Washington, DC 20231 on the date shown below.

Dated June 11, 2002 Signature

(Reza Mollaaghababa)

Docket No.: 102164-0015  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Babs R. Soller, et al.

COPY OF PAPERS  
ORIGINALLY FILED

Application No.: 10/086,917

Group Art Unit: 1645

Filed: February 28, 2002

Examiner: Not Yet Assigned

For: CORRECTION OF SPECTRA FOR SUBJECT  
DIVERSITY

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION**

**Box Missing Parts**  
Commissioner for Patents  
Washington, DC 20231

Dear Sir:

In response to the Notice to File Missing Parts of Application – Filing Date Granted mailed March 27, 2002, Applicant respectfully submits a Combined Declaration and Power of Attorney, an Assignment, and Formal Drawings.

Our check in the amount of \$120.00 covering the fee set forth in 37 CFR 1.16(e) is enclosed. The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 141449, under Order No. 102164-0015. A duplicate copy of this paper is enclosed.

Dated: June 11, 2002

Respectfully submitted,

By

*Reza Mollaaghababa*

Attorneys for Applicant